U.S. Patent Application Serial No. 10/662,913 - Filed: September 15, 2003

Amendment Dated: February 12, 2007

Reply to Office Action Dated: October 10, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Currently Amended) A method for producing a replaceable fuser roller member, the replaceable fuser member being adapted to be positioned on a machine mandrel in a fuser system of an electrophotographic machine to function as a roller in the electrophotographic machine, the method comprising:
- a) mounting a high temperature nickel sleeve having an inside and an outside and a coefficient of thermal expansion on a mandrel having an outside, being configured to receive the sleeve over the outside of the mandrel and having a coefficient of thermal expansion equal to from about 80 greater than 100 percent to about 120 percent of the coefficient of thermal expansion of the sleeve in a temperature range from about 20 to about 325°C;
- b) applying a coating of a primer comprising a silane coupling agent that contains epoxies to the outside of the sleeve;
- c) applying a coating of a base cushion elastomer around the outside of the sleeve;
 - d) curing the base cushion elastomer;
- e) machining the coating of the cured base cushion elastomer to a desired thickness;
- f) applying a topcoat layer over the machined coating of the base cushion;
 - g) curing the topcoat layer; and,
 - h) removing the replaceable fuser member from the mandrel.

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2. **(Original)** The method of claim 1, wherein said primer contains at least one of the group consisting of, (3 glycidoxypropyl)bis (trimethylsiloxy)methylsilane, 3-glycidoxypropyldimethylethoxysilane, (3-glycidoxypropyl) methyldiethoxysilane, 3-glycidoxypropylmethyl-diisopropenoxysilane, 3-glycidoxypropylpentamethyl-disiloxane, and 3-glycidoxypropyltrimethoxysilane.

3. (Original) The method of claim 2, wherein said primer contains at least one of the group consisting of, (3-glycidoxypropyl)bis(trimethylsiloxy) methylsilane and (3-glycidoxypropyl)dimethylethoxysilane.

4. (Cancelled)

- 5. (Currently Amended) The method of claim 1, wherein said mandrel has a coefficient of thermal expansion equal to from 90 greater than 100% to 110% of the coefficient of thermal expansion of the sleeve.
- 6. (Original) The method of claim 1, wherein said sleeve is of a thickness from about 0.001 to about 0.05 inches.

7. (Cancelled)

- 8. (Original) The method of claim 1, wherein said desired thickness of the coating of the cured base cushion layer is from about 0.6 to about 50 mm.
- 9. (Original) The method of claim 1, wherein said base cushion coating is selected from the group consisting of silicone rubbers, silicon polymers, silicone rubbers containing fillers and silicone polymers containing fillers.

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10. (Original) The method of claim 9, wherein said base cushion coating contains at least one filler and is thermally conductive.

- 11. (Original) The method of claim 1, wherein said base cushion is cured at a temperature up to about 205°C.
- 12. (Original) The method of claim 1, wherein said topcoat layer is cured at a temperature up to about 275°C.
- 13. (Original) The method of claim 12, wherein said topcoat layer is cured at a temperature from about 220 to about 275°C.
- 14. **(Original)** The method of claim 1, wherein said sleeve is removed from the mandrel by selectively cooling the mandrel.

15. (Withdrawn)

- 16. (Original) The method of claim 1, wherein said topcoat layer comprises at least one material selected from the group consisting of thermoplastic fluorocarbon polymers and thermoplastic fluorocarbon random copolymers.
- 17. (Currently Amended) The method of claim + 16, wherein said cured thermoplastic polymer is a thermoplastic fluorocarbon random copolymer containing a bisphenol curing agent residue, a particulate filler containing zinc oxide and an aminosiloxane.
- 18. (Currently Amended) The method of claim 4 16, wherein said cured thermoplastic polymer is a thermoplastic fluorocarbon random copolymer containing a bisphenol curing agent residue, a particulate filler containing zinc oxide, an aminosiloxane and antimony-doped tin oxide particles.

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- 19. (Cancelled)
- (Cancelled) 20.